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Morbidity and Mortality Weekly Report

PUBLIC HEALTH SERVICE
U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE

Prepared by the COMMUNICABLE DISEASE CENTER MElrose 4-5131

For release June 30, 1961 | Atlanta 22, Georgia | Vol. 10, No. 25

Provisional Information on Selected Notifiable Diseases in the United States and on Deaths in Selected Cities for Week Ended June 24, 1961

Poliomyelitis – Seventeen cases, eight paralytic were reported this week by thirteen different States. The total number of cases, although at a record low level for this season of the year, represents an increase over that of the past three weeks.

An additional two non-paralytic cases were reported this week from the Atlanta area bringing the total for the year to nine of which four are paralytic. From prompt laboratory studies, this was identified as a presumptive Type III outbreak and over 250,000 children under the age of 15 were fed Type III oral vaccine during the past week. A concurrent Salk vaccine campaign has also been in progress.

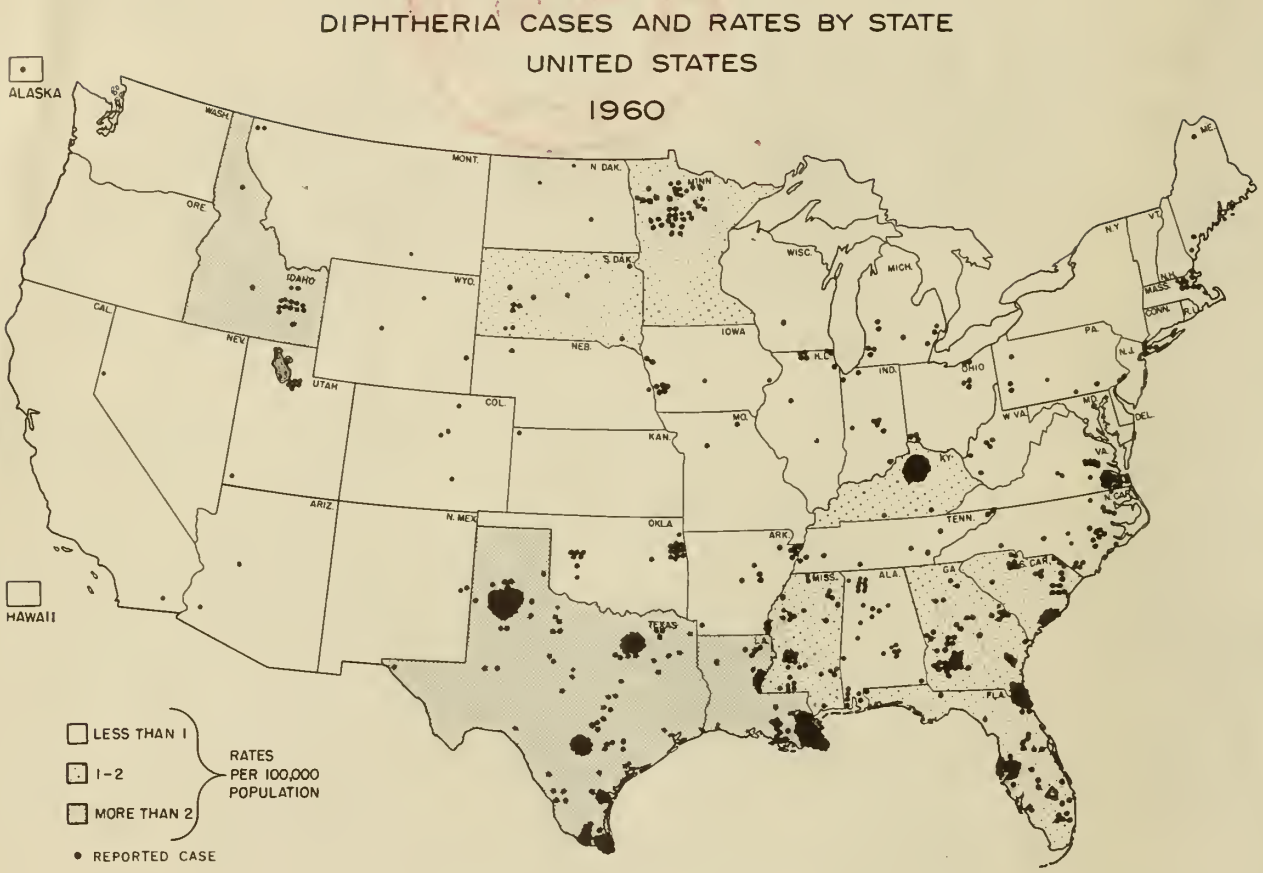
Three paralytic cases, all with onsets in mid-June, have now been reported from South-central Louisiana. Seven cases in all have occurred in Louisiana this year of which six are paralytic. All are among children under the age of five years.

Hepatitis – The current weekly total of 1,233 cases represents a decrease of 114 cases from that reported last week. Decreased numbers of cases are recorded for all sections of the country except for the east-south-central district of Kentucky, Alabama, Mississippi, and Tennessee which show an increase from 166 to 215 cases. Over three-fourths of these cases are among persons under 20 years of age.

Table I. Cases of Specified Notifiable Diseases: United States

(Cumulative totals include revised and delayed reports through previous week)

Disease (Seventh Revision of International Lists, 1955)	25th Week			Cumulative						Approximate seasonal low point
				First 25 weeks			Since seasonal low week			
* Weekly incidence low or sporadic --- Data not available - Quantity zero	Ended June 24, 1961	Ended June 17, 1960	Median 1956-60	1961	1960	Median 1956-60	1960-61	1959-60	Median 1955-56 to 1959-60	
Anthrax-----062	-	-	*	3	10	*	*	*	*	*
Botulism-----049.1	-	1	*	4	4	*	*	*	*	*
Brucellosis (undulant fever)-----044	11	17	23	267	412	407	*	*	*	*
Diphtheria-----055	5	4	8	303	325	388	883	860	1,085	July 1
Encephalitis, infectious-----082	33	33	33	718	760	720	718	760	720	Jan. 1
Hepatitis, infectious, and serum-----092,N998.5 pt.	1,233	661	285	42,048	19,122	11,290	57,255	26,723	16,700	Sept. 1
Malaria-----110-117	1	-	*	23	25	*	*	*	*	*
Measles-----085	10,966	11,023	11,001	351,437	362,813	409,065	387,647	395,698	445,734	Sept. 1
Meningitis, aseptic-----340 pt.	24	39	---	667	710	---	667	710	---	Jan. 1
Meningococcal infections-----057	30	41	40	1,167	1,218	1,334	1,823	1,948	2,122	Sept. 1
Poliomyelitis-----080	17	41	118	219	428	850	116	212	557	Apr. 1
Paralytic-----080.0,080.1	8	28	66	139	312	581	79	158	373	Apr. 1
Nonparalytic-----080.2	8	12	32	47	78	175	22	42	127	Apr. 1
Unspecified-----080.3	1	1	20	33	38	94	15	12	57	Apr. 1
Psittacosis-----096.2	1	8	*	35	51	*	*	*	*	*
Rabies in man-----094	-	-	*	2	-	*	*	*	*	*
Streptococcal sore throat, including scarlet fever-----050,051	4,059	4,104	---	204,111	191,337	---	301,763	---	---	Aug. 1
Typhoid fever-----040	25	37	30	278	298	370	164	168	190	Apr. 1
Typhus fever, endemic-----101	1	4	*	15	34	*	*	*	*	*
Rabies in animals-----	71	64	76	1,755	2,002	2,390	2,331	2,976	3,172	Oct. 1



Typhoid Fever – Six cases are reported by New York State this week. These cases, plus another not yet reported officially, occurred among a group of school children age 7 to 13 years in Westchester County. The dates of onset for these cases range between June 4 and June 19. All appear to relate to a common exposure at a school cafeteria.

EPIDEMIOLOGICAL REPORTS

Diphtheria in the United States – 1960

During 1960, information concerning 873 clinical cases and 247 carriers of diphtheria were submitted to the Surveillance Section of the Communicable Disease Center. As depicted by the map, the majority of the cases (81%) were reported from the fifteen States in the South Atlantic and East and West South Central Districts.

Two major outbreaks, the largest since 1956, occurred in 1960 in Scott County, Kentucky (MMWR Vol. 10, No. 2) where 51 cases with one death were recorded, and in Plainview, Texas (MMWR Vol. 10, No. 1 & Vol. 9, No. 51) which experienced 56 cases and one death. Cases in both outbreaks occurred predominantly among unimmunized children.

As in previous years, diphtheria cases in the United States concentrated among children: 78% of the cases were among those under 15, the greatest number occurring among those 3 to 6 years of age.

Although there were a somewhat greater number of cases among white persons (495) than among non-white (366), attack rates among non-white persons were approximately six times greater, and cases in this latter group tended to concentrate more among younger children.

The immunization status of the cases bore a definite relationship both the the occurrence of disease and it severity. Of the 873 cases reported, both the immunization status and severity of disease were recorded for 625.

	Immunization Status*				
Illness Severity	Fully	Lapsed	Inadequate	None	Total
Mild	42	35	33	244	354
Moderate	10	13	16	102	141
Severe	9	4	2	57	72
Death	0	1	4	53	58
Total	61	53	55	456	625

*144 cases with severity unspecified; 54 cases immunization status unspecified; 50 cases both unspecified.

(Continued on page 8)

Table 2. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES, EACH DIVISION AND STATE, AND PUERTO RICO, FOR WEEKS ENDED JUNE 25, 1960 AND JUNE 24, 1961

(By place of occurrence. Numbers under diseases are category numbers of the Seventh Revision of the International Lists, 1955)

Area	Poliomyelitis 080										Meningitis, aseptic	Brucellosis (undulant fever)
	Total (Includes cases not specified by type)				Paralytic 080.0,080.1				Nonparalytic			
	25th Week		Cumulative, first 25 weeks		25th Week		Cumulative, first 25 weeks		080.2		340 pt.	044
	1961	1960	1961	1960	1961	1960	1961	1960	1961	1960	1961	1961
UNITED STATES	17	41	219	428	8	28	139	312	8	12	24	11
NEW ENGLAND	-	3	3	23	-	3	3	23	-	-	-	-
Maine	-	1	-	6	-	1	-	6	-	-	-	-
New Hampshire	-	-	-	-	-	-	-	-	-	-	-	-
Vermont	-	-	-	-	-	-	-	-	-	-	-	-
Massachusetts	-	-	2	6	-	-	2	6	-	-	-	-
Rhode Island	-	2	-	11	-	2	-	11	-	-	-	-
Connecticut	-	-	1	-	-	-	1	-	-	-	-	-
MIDDLE ATLANTIC	-	3	17	44	-	2	14	31	-	1	1	1
New York	-	1	7	34	-	1	6	23	-	-	-	1
New Jersey	-	-	5	6	-	-	4	6	-	-	-	-
Pennsylvania	-	2	5	4	-	1	4	2	-	1	1	-
EAST NORTH CENTRAL	1	4	25	49	-	1	16	19	-	2	3	-
Ohio	1	1	10	21	-	1	5	7	-	-	-	-
Indiana	-	1	3	1	-	-	2	-	-	1	-	-
Illinois	-	1	7	10	-	-	6	7	-	1	2	-
Michigan	-	1	2	14	-	-	2	4	-	-	1	-
Wisconsin	-	-	3	3	-	-	1	1	-	-	-	-
WEST NORTH CENTRAL	1	5	11	26	-	1	5	13	1	4	1	6
Minnesota	-	2	3	12	-	1	3	9	-	1	1	1
Iowa	-	3	2	7	-	-	-	1	-	3	-	3
Missouri	1	-	4	4	-	-	-	3	1	-	-	-
North Dakota	-	-	-	-	-	-	-	-	-	-	-	-
South Dakota	-	-	-	1	-	-	-	-	-	-	-	-
Nebraska	-	-	2	-	-	-	2	-	-	-	-	1
Kansas	-	-	-	2	-	-	-	-	-	-	-	1
SOUTH ATLANTIC	7	5	27	60	4	5	20	49	3	-	1	1
Delaware	-	-	2	-	-	-	1	-	-	-	-	-
Maryland	-	-	-	1	-	-	-	-	-	-	-	-
District of Columbia	-	-	-	-	-	-	-	-	-	-	-	-
Virginia	1	-	1	-	1	-	1	-	-	-	1	1
West Virginia	-	-	3	4	-	-	2	4	-	-	-	-
North Carolina	-	1	4	17	-	1	3	17	-	-	-	-
South Carolina	2	1	4	7	2	1	4	5	-	-	-	-
Georgia	3	1	9	4	1	1	7	3	2	-	-	-
Florida	1	2	4	27	-	2	2	20	1	-	-	-
EAST SOUTH CENTRAL	2	-	22	14	2	-	8	11	-	-	2	-
Kentucky	-	-	15	8	-	-	2	5	-	-	-	-
Tennessee	-	-	2	1	-	-	1	1	-	-	-	-
Alabama	1	-	1	1	1	-	1	1	-	-	-	-
Mississippi	1	-	4	4	1	-	4	4	-	-	2	-
WEST SOUTH CENTRAL	3	4	37	51	1	1	20	33	2	3	3	2
Arkansas	1	-	2	-	-	-	-	-	1	-	-	2
Louisiana	2	-	9	15	1	-	6	11	1	-	-	-
Oklahoma	-	-	-	3	-	-	-	3	-	-	-	-
Texas	-	4	26	33	-	1	14	19	-	3	3	-
MOUNTAIN	-	1	20	22	-	1	12	12	-	-	-	1
Montana	-	1	1	10	-	1	1	6	-	-	-	-
Idaho	-	-	4	4	-	-	1	1	-	-	-	-
Wyoming	-	-	-	1	-	-	-	-	-	-	-	-
Colorado	-	-	3	1	-	-	3	1	-	-	-	-
New Mexico	-	-	1	2	-	-	-	-	-	-	-	-
Arizona	-	-	5	3	-	-	3	3	-	-	-	-
Utah	-	-	6	1	-	-	4	1	-	-	-	1
Nevada	-	-	-	-	-	-	-	-	-	-	-	-
PACIFIC	3	16	57	139	1	14	41	121	2	2	13	-
Washington	1	-	9	7	1	-	5	7	-	-	4	-
Oregon	1	-	5	16	-	-	1	11	1	-	-	-
California	1	16	41	110	-	14	33	97	1	2	9	-
Alaska	-	-	-	2	-	-	-	2	-	-	-	-
Hawaii	-	-	2	4	-	-	2	4	-	-	-	-
Puerto Rico	-	30	4	244	-	27	4	237	-	2	2	-

Table 2. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES, EACH DIVISION AND STATE, AND PUERTO RICO, FOR WEEKS ENDED JUNE 25, 1960 AND JUNE 24, 1961 - Continued

(By place of occurrence. Numbers under diseases are category numbers of the Seventh Revision of the International Lists, 1955)

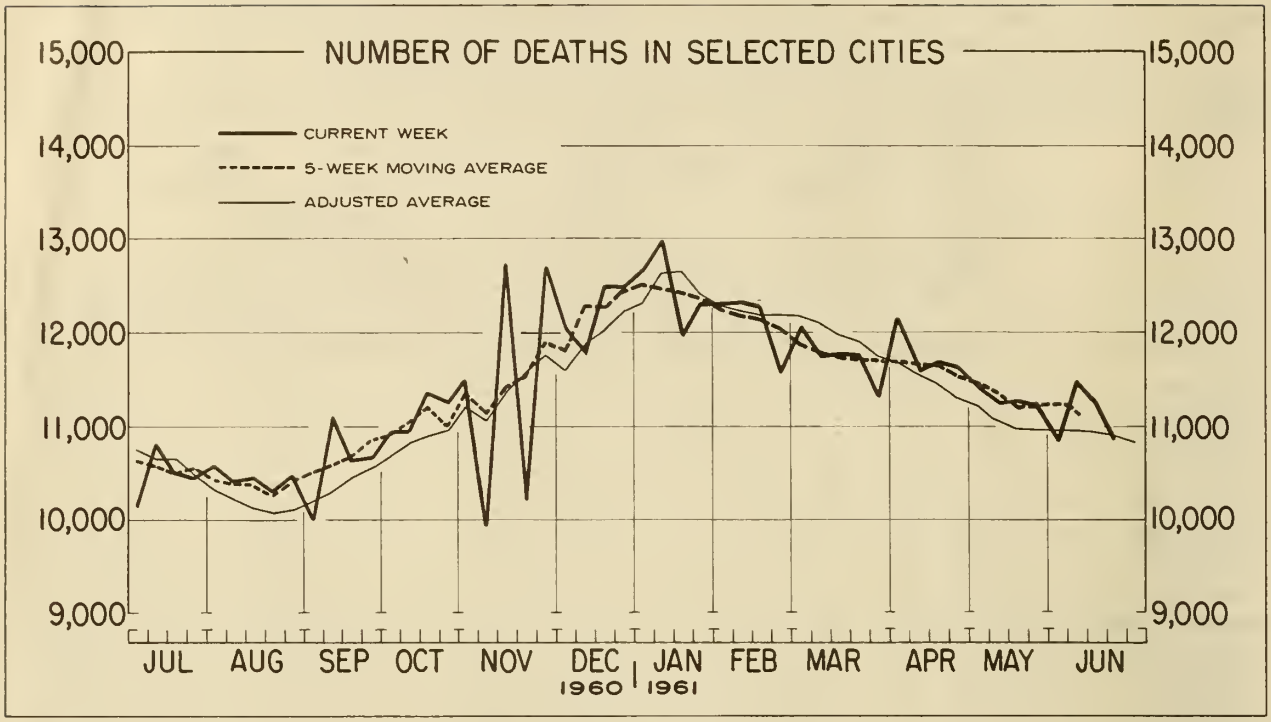
Area	Diphtheria 055				Encephalitis, infectious		Hepatitis, infectious, and serum 092,N998.5 pt.				Measles	
	25th Week		Cumulative, first 25 weeks		082		25th Week		Cumulative, first 25 weeks		085	
	1961	1960	1961	1960	1961	1960	1961	1960	1961	1960	1961	1960
UNITED STATES	5	4	303	325	33	33	1,233	661	42,048	19,122	10,966	11,023
NEW ENGLAND	-	1	4	9	1	-	30	17	1,162	575	1,422	1,332
Maine	-	-	-	2	-	-	-	4	69	40	43	96
New Hampshire	-	-	-	-	-	-	1	-	71	20	6	5
Vermont	-	-	-	-	-	-	5	-	130	9	20	164
Massachusetts	-	1	4	6	1	-	19	6	413	286	853	729
Rhode Island	-	-	-	1	-	-	2	4	160	110	164	41
Connecticut	-	-	-	-	-	-	3	3	319	110	336	297
MIDDLE ATLANTIC	1	-	16	9	10	3	176	99	6,048	2,011	2,781	1,624
New York	-	-	7	1	5	-	80	41	2,488	1,001	1,179	1,160
New Jersey	-	-	-	1	-	3	25	1	1,482	158	792	329
Pennsylvania	1	-	9	7	5	-	71	57	2,078	852	810	135
EAST NORTH CENTRAL	-	-	13	25	1	5	247	118	8,529	3,651	2,829	4,006
Ohio	-	-	1	14	-	1	50	36	2,971	1,196	371	660
Indiana	-	-	1	4	-	-	33	5	1,403	450	157	274
Illinois	-	-	10	3	1	2	52	23	1,436	767	484	334
Michigan	-	-	1	3	-	2	110	50	2,511	1,078	948	1,219
Wisconsin	-	-	-	1	-	-	2	4	208	160	869	1,519
WEST NORTH CENTRAL	-	-	24	18	-	1	135	36	4,301	1,484	193	161
Minnesota	-	-	13	5	-	-	34	3	974	149	8	16
Iowa	-	-	1	2	-	-	35	8	1,229	255	93	83
Missouri	-	-	-	2	-	-	24	19	957	552	25	26
North Dakota	-	-	2	1	-	-	4	2	91	115	57	35
South Dakota	-	-	6	5	-	-	-	2	123	116	-	-
Nebraska	-	-	2	1	-	-	25	-	436	143	10	1
Kansas	-	-	-	2	-	1	13	2	491	154	NN	NN
SOUTH ATLANTIC	1	2	61	75	4	3	133	81	5,124	2,267	618	675
Delaware	-	-	-	-	-	-	4	8	130	133	25	10
Maryland	-	-	1	1	4	3	32	5	464	226	226	71
District of Columbia	-	-	2	-	-	-	4	1	59	16	5	12
Virginia	-	1	12	9	-	-	23	7	742	454	-	207
West Virginia	-	-	1	2	-	-	13	16	1,043	438	194	156
North Carolina	-	-	7	2	-	-	24	11	1,108	177	76	24
South Carolina	-	1	2	19	-	-	6	1	289	42	21	23
Georgia	1	-	13	17	-	-	5	5	512	162	8	16
Florida	-	-	23	25	-	-	22	27	777	619	63	156
EAST SOUTH CENTRAL	-	1	12	39	1	6	215	83	6,590	2,908	756	644
Kentucky	-	-	3	1	-	-	79	14	1,964	1,149	110	136
Tennessee	-	1	2	6	-	1	57	29	2,666	944	469	447
Alabama	-	-	5	20	-	2	57	27	1,105	605	140	32
Mississippi	-	-	2	12	1	3	22	13	855	210	37	29
WEST SOUTH CENTRAL	2	-	162	118	2	1	90	44	3,039	1,560	460	720
Arkansas	-	-	3	2	1	-	9	-	586	69	10	3
Louisiana	2	-	17	26	-	-	11	-	300	64	-	-
Oklahoma	-	-	3	6	-	-	9	1	227	216	69	33
Texas	-	-	139	84	1	1	61	43	1,926	1,211	381	684
MOUNTAIN	-	-	7	31	-	-	76	43	2,672	1,587	395	605
Montana	-	-	2	2	-	-	8	1	255	61	47	78
Idaho	-	-	-	11	-	-	16	8	172	204	74	43
Wyoming	-	-	-	5	-	-	6	1	102	13	1	-
Colorado	-	-	4	3	-	-	18	14	923	542	106	326
New Mexico	-	-	-	4	-	-	5	1	302	229	NN	-
Arizona	-	-	-	3	-	-	16	17	387	373	146	99
Utah	-	-	-	3	-	-	7	1	451	145	20	57
Nevada	-	-	1	-	-	-	-	-	80	20	1	2
PACIFIC	1	-	4	1	14	14	131	140	4,583	3,079	1,512	1,256
Washington	-	-	-	-	-	1	12	13	579	369	104	64
Oregon	-	-	-	-	-	-	21	19	779	538	210	394
California	1	-	1	-	14	11	95	105	3,047	1,986	1,186	729
Alaska	-	-	3	1	-	2	2	1	142	132	6	62
Hawaii	-	-	-	-	-	-	1	2	36	54	6	7
Puerto Rico	-	1	37	90	-	-	34	7	492	419	44	-

NN-Not Notifiable

Table 2. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES, EACH DIVISION AND STATE, AND PUERTO RICO, FOR WEEKS ENDED JUNE 25, 1960 AND JUNE 24, 1961 - Continued

(By place of occurrence. Numbers under diseases are category numbers of the Seventh Revision of the International Lists, 1955)

Area	Malaria 110-117	Meningoccocal infections 057		Psittacosis 096.2	Streptococcal sore throat, etc. 050,051	Typhoid fever 040				Typhus fever, endemic 101	Rabies in animals	
						25th Week		Cumulative, first 25 weeks				
	1961	1961	1960	1961	1961	1961	1960	1961	1960	1961	1961	1960
UNITED STATES	1	30	41	1	4,059	25	37	278	298	1	71	64
NEW ENGLAND	-	2	3	-	265	-	-	6	4	-	-	-
Maine	-	-	-	-	7	-	-	1	1	-	-	-
New Hampshire	-	-	-	-	4	-	-	-	-	-	-	-
Vermont	-	-	-	-	6	-	-	-	-	-	-	-
Massachusetts	-	1	1	-	114	-	-	1	2	-	-	-
Rhode Island	-	-	1	-	11	-	-	1	-	-	-	-
Connecticut	-	1	1	-	123	-	-	3	1	-	-	-
MIDDLE ATLANTIC	-	6	7	-	398	6	1	33	15	-	2	12
New York	-	3	2	-	303	6	1	17	12	-	2	12
New Jersey	-	2	1	-	49	-	-	6	-	-	-	-
Pennsylvania	-	1	4	-	46	-	-	10	3	-	-	-
EAST NORTH CENTRAL	-	6	12	1	426	3	-	36	31	-	4	13
Ohio	-	1	2	-	38	-	-	11	5	-	1	3
Indiana	-	-	1	-	79	2	-	7	9	-	1	5
Illinois	-	1	3	-	62	1	-	16	8	-	2	3
Michigan	-	4	4	1	175	-	-	1	5	-	-	2
Wisconsin	-	-	2	-	72	-	-	1	4	-	-	-
WEST NORTH CENTRAL	-	-	2	-	55	1	1	19	17	-	23	12
Minnesota	-	-	-	-	5	-	-	5	1	-	2	1
Iowa	-	-	-	-	11	-	1	1	1	-	11	5
Missouri	-	-	1	-	2	1	-	10	13	-	5	6
North Dakota	-	-	-	-	37	-	-	-	-	-	-	-
South Dakota	-	-	-	-	-	-	-	1	1	-	4	-
Nebraska	-	-	-	-	-	-	-	-	1	-	1	-
Kansas	-	-	1	-	-	-	-	2	-	-	-	-
SOUTH ATLANTIC	-	2	11	-	346	5	3	45	38	-	8	6
Delaware	-	-	-	-	-	1	-	1	-	-	-	-
Maryland	-	-	1	-	92	-	-	-	-	-	-	-
District of Columbia	-	-	-	-	1	-	1	6	2	-	-	-
Virginia	-	-	-	-	52	-	-	1	5	-	4	2
West Virginia	-	-	-	-	56	-	-	4	2	-	1	1
North Carolina	-	1	2	-	14	1	1	7	8	-	-	2
South Carolina	-	1	-	-	21	-	-	2	6	-	-	-
Georgia	-	-	4	-	-	3	1	18	8	-	-	1
Florida	-	-	4	-	110	-	-	6	7	-	3	-
EAST SOUTH CENTRAL	-	4	1	-	890	3	4	30	47	-	9	7
Kentucky	-	-	-	-	58	-	1	6	13	-	1	3
Tennessee	-	3	-	-	785	1	1	20	23	-	5	3
Alabama	-	1	1	-	3	1	2	3	8	-	3	1
Mississippi	-	-	-	-	44	1	-	1	3	-	-	-
WEST SOUTH CENTRAL	-	4	2	-	626	6	24	57	106	-	14	10
Arkansas	-	1	1	-	-	1	-	7	18	-	2	2
Louisiana	-	1	1	-	1	-	19	5	43	-	1	-
Oklahoma	-	-	-	-	49	-	-	5	5	-	-	-
Texas	-	2	-	-	576	5	5	40	40	-	11	8
MOUNTAIN	-	1	-	-	716	-	-	23	17	-	2	2
Montana	-	-	-	-	14	-	-	3	5	-	-	-
Idaho	-	-	-	-	48	-	-	-	-	-	-	-
Wyoming	-	-	-	-	-	-	-	1	2	-	-	-
Colorado	-	-	-	-	165	-	-	5	-	-	-	2
New Mexico	-	-	-	-	251	-	-	6	4	-	1	-
Arizona	-	1	-	-	152	-	-	5	6	-	1	-
Utah	-	-	-	-	83	-	-	2	-	-	-	-
Nevada	-	-	-	-	3	-	-	1	-	-	-	-
PACIFIC	1	5	3	-	337	1	4	29	23	1	9	2
Washington	1	-	-	-	62	-	-	3	1	-	-	-
Oregon	-	-	1	-	33	-	4	-	4	-	-	-
California	-	4	2	-	229	1	-	26	18	-	4	2
Alaska	-	-	-	-	12	-	-	-	-	-	5	-
Hawaii	-	1	-	-	1	-	-	-	-	1	-	-
Puerto Rico	-	-	-	-	1	1	-	9	16	-	-	-



The chart shows the number of deaths reported for 117 major cities of the United States by week for the current year, a 5-week moving average of these figures plotted at the central week, and an adjusted average for comparison. For each region the adjusted average was computed as follows: From the total deaths reported each week for the years 1956-1960, 3 central figures were selected by eliminating the highest and lowest figure reported for that week. A 5-week moving average of the arithmetic mean of the 3 central figures was then computed with adjustment to allow for population growth in each region. The average value of the regional increases was 2 percent which was incorporated in the adjusted average shown in the chart.

Table 4 shows the number of death certificates received during the week indicated for deaths that occurred in selected cities. Figures compiled in this way, by week of receipt, usually approximate closely the number of deaths occurring during the week. However, differences are to be expected because of variations in the interval between death and receipt of the certificate and because of incomplete reporting due to holidays or vacations. If a report is not received from a city in time to be included in the total for the current week, an estimate is used.

The number of deaths in cities of the same size may also differ because of variations in the age, race, and sex composition of the populations and because some cities are hospital centers serving the surrounding areas. Changes from year to year in the number of deaths may be due in part to population increases or decreases.

Table 3. DEATHS IN SELECTED CITIES BY GEOGRAPHIC DIVISIONS

(By place of occurrence and week of filing certificate. Excludes fetal deaths. Data exclude figures shown in parentheses in table 4)

Area	25th week ended June 24, 1961	24th week ended June 17, 1961	Adjusted average, 25th week 1956-60	Percent change, adjusted average to current week	Cumulative, first 25 weeks		
					1961	1960	Percent change
TOTAL, 117 REPORTING CITIES	10,856	11,278	10,910	-0.5	293,879	302,086	-2.7
New England (14 cities)	673	730	651	+3.4	18,198	19,018	-4.3
Middle Atlantic (20 cities)	3,009	3,164	2,990	+0.6	84,183	83,459	+0.9
East North Central (21 cities)	2,320*	2,529	2,337	-0.7	62,829	64,846	-3.1
West North Central (9 cities)	767	777	781	-1.8	19,859	21,090	-5.8
South Atlantic (11 cities)	930	1,014	933	-0.3	25,294	26,290	-3.8
East South Central (8 cities)	477*	470	481	-0.8	13,333	13,748	-3.0
West South Central (13 cities)	891	910	1,003	-11.2	24,959	26,626	-6.3
Mountain (8 cities)	363	303	351	+3.4	9,243	9,413	-1.8
Pacific (13 cities)	1,426*	1,381	1,383	+3.1	35,981	37,596	-4.3

*Includes estimate for missing reports.

Table 4. DEATHS IN SELECTED CITIES

(By place of occurrence and week of filing certificate. Excludes fetal deaths)

Area	25th week ended June 24, 1961	24th week ended June 17, 1961	Cumulative, first 25 weeks 1961	Cumulative, first 25 weeks 1960
NEW ENGLAND:				
Boston, Mass.	249	220	6,220	6,631
Bridgeport, Conn.	35	48	971	1,089
Cambridge, Mass.	22	23	755	825
Fall River, Mass.	23	31	697	767
Hartford, Conn.	40	42	1,209	1,228
Lowell, Mass.	29	38	642	629
Lynn, Mass.	16	14	575	635
New Bedford, Mass.	28	27	683	641
New Haven, Conn.	40	51	1,199	1,169
Providence, R.I.	49	80	1,584	1,672
Somerville, Mass.	19	12	343	373
Springfield, Mass.	45	57	1,179	1,209
Waterbury, Conn.	30	25	709	735
Worcester, Mass.	48	62	1,432	1,415
MIDDLE ATLANTIC:				
Albany, N.Y.	57	36	1,182	1,134
Allentown, Pa.	31	30	884	934
Buffalo, N.Y.	150	143	3,771	3,839
Camden, N.J.	29	42	1,095	1,133
Elizabeth, N.J.	22	28	747	754
Erie, Pa.	50	38	1,008	995
Jersey City, N.J.	73	71	1,810	1,844
Newark, N.J.	78	90	2,615	2,541
New York City, N.Y.	1,483	1,605	43,044	42,482
Paterson, N.J.	29	50	1,009	1,013
Philadelphia, Pa.	487	464	13,163	12,719
Pittsburgh, Pa.	228	226	4,959	5,039
Reading, Pa.	28	32	581	628
Rochester, N.Y.	70	97	2,523	2,581
Schenectady, N.Y.	27	24	624	616
Scranton, Pa.	32	31	904	989
Syracuse, N.Y.	49	59	1,555	1,617
Trenton, N.J.	30	49	1,154	1,082
Utica, N.Y.	19	24	733	718
Yonkers, N.Y.	37	25	822	801
EAST NORTH CENTRAL:				
Akron, Ohio	42	60	1,432	1,449
Canton, Ohio	27	32	809	901
Chicago, Ill.	721	761	19,053	19,907
Cincinnati, Ohio	151	159	4,006	4,102
Cleveland, Ohio	168	219	5,215	5,589
Columbus, Ohio	109	97	2,880	3,090
Dayton, Ohio	87	79	2,075	1,866
Detroit, Mich.	327	362	8,604	8,952
Evansville, Ind.	22	33	924	946
Flint, Mich.	36	51	1,107	1,024
Fort Wayne, Ind.	37	26	974	969
Gary, Ind.	34	24	772	822
Grand Rapids, Mich.	43	55	1,154	1,075
Indianapolis, Ind.	137*	139	3,716	3,812
Madison, Wis.	30	48	831	836
Milwaukee, Wis.	100	122	3,115	3,222
Peoria, Ill.	19	36	740	759
Rockford, Ill.	33	27	731	737
South Bend, Ind.	40	31	739	742
Toledo, Ohio	112	101	2,504	2,596
Youngstown, Ohio	55	67	1,448	1,450
WEST NORTH CENTRAL:				
Des Moines, Iowa	61	52	1,342	1,452
Duluth, Minn.	32	21	647	673
Kansas City, Kans.	48	31	969	899
Kansas City, Mo.	101	163	3,255	3,366
Lincoln, Nebr.	(38)	(26)	(710)	(659)
Minneapolis, Minn.	113	81	3,066	3,199
Omaha, Nebr.	81	62	1,737	1,929
WEST NORTH CENTRAL—Con.:				
St. Louis, Mo.	217	263	6,003	6,537
St. Paul, Minn.	73	60	1,699	1,853
Wichita, Kans.	41	44	1,141	1,182
SOUTH ATLANTIC:				
Atlanta, Ga.	102	91	2,917	3,060
Baltimore, Md.	254	236	6,356	6,687
Charlotte, N.C.	28	38	897	1,066
Jacksonville, Fla.	42	72	1,468	1,620
Miami, Fla.	84	87	1,924	1,905
Norfolk, Va.	45	59	1,271	1,083
Richmond, Va.	75	66	2,021	2,064
Savannah, Ga.	29	34	842	947
St. Petersburg, Fla.	(55)	(66)	(1,834)	(1,933)
Tampa, Fla.	57	74	1,698	1,775
Washington, D.C.	174	216	4,916	5,080
Wilmington, Del.	40	41	984	1,003
EAST SOUTH CENTRAL:				
Birmingham, Ala.	91	89	2,225	2,236
Chattanooga, Tenn.	42*	47	1,227	1,221
Knoxville, Tenn.	34	24	715	769
Louisville, Ky.	111	107	2,898	2,989
Memphis, Tenn.	87	96	2,955	2,947
Mobile, Ala.	30	31	1,036	1,093
Montgomery, Ala.	36	19	806	933
Nashville, Tenn.	46	57	1,471	1,560
WEST SOUTH CENTRAL:				
Austin, Tex.	33	33	878	923
Baton Rouge, La.	18	15	712	745
Corpus Christi, Tex.	22	15	585	638
Dallas, Tex.	123	120	3,152	3,290
El Paso, Tex.	29	27	906	986
Fort Worth, Tex.	43	64	1,656	1,773
Houston, Tex.	141	168	4,165	4,410
Little Rock, Ark.	50	61	1,415	1,546
New Orleans, La.	117	174	4,210	4,788
Oklahoma City, Okla.	79	51	1,930	1,954
San Antonio, Tex.	117	96	2,633	2,697
Shreveport, La.	49	47	1,309	1,417
Tulsa, Okla.	70	39	1,408	1,459
MOUNTAIN:				
Albuquerque, N. Mex.	40	28	783	773
Colorado Springs, Colo.	23	14	421	435
Denver, Colo.	110	101	2,872	3,114
Ogden, Utah	22	15	405	444
Phoenix, Ariz.	73	71	2,111	2,025
Pueblo, Colo.	16	17	425	400
Salt Lake City, Utah	42	40	1,241	1,255
Tucson, Ariz.	37	17	985	967
PACIFIC:				
Berkeley, Calif.	19	19	433	437
Fresno, Calif.	(60)	(41)	(1,130)	(1,187)
Glendale, Calif.	(40)	(31)	(847)	(993)
Honolulu, Hawaii	40	39	1,008	1,068
Long Beach, Calif.	56	56	1,456	1,418
Los Angeles, Calif.	535	481	12,811	13,441
Oakland, Calif.	105	90	2,414	2,504
Pasadena, Calif.	31	31	848	892
Portland, Oreg.	110	107	2,701	2,871
Sacramento, Calif.	57*	68	1,553	1,506
San Diego, Calif.	93	113	2,282	2,331
San Francisco, Calif.	185	191	5,017	5,184
San Jose, Calif.	(43)	(25)	(892)	(871)
Seattle, Wash.	119	125	3,323	3,629
Spokane, Wash.	47*	38	1,147	1,201
Tacoma, Wash.	29	23	988	1,114
San Juan, P. R.	(35)	(22)	(900)	(883)

*Estimate - based on average percentage of divisional total.

() Figures shown in parenthesis are from cities which have been reporting less than five years and hence are not included in Table 3.

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Seventy-three percent of the cases occurred among unvaccinated persons and 53 of the 57 deaths. Among those fully vaccinated (i.e. a primary series within four years or a primary series at any time with a booster within four years) there were no deaths and 42 of the 61 cases in this group were classed as mild. The only recorded death among persons who had received a primary series at any time occurred in a 35-year-old North Dakota woman, a diabetic, who was reported to have received a primary series at age 9.

Botulism – Type E – Washington

At 9:00 p.m. on May 24th, twelve persons on the Hoh Indian Reservation consumed a meal consisting of freshly prepared pork chop suey, berry sprouts, fresh raw salmon, smoked elk meat and salmon eggs. The elk meat had been smoked fourteen days before and stored without refrigeration. The uncooked salmon eggs had been placed in a fruit jar last November, covered with paper and stored in a shed near the family home.

Nine hours after the meal, a 22-year-old man developed blurred vision, dizziness, abdominal pain and vomiting. Within an hour, three other adults developed similar symptoms. The man died in cardio-respiratory collapse ten hours after onset; the other victims recovered completely within 72 hours.

The eight remaining persons, all children, consumed portions of the same food but were not ill. Notably, the salmon eggs they ate were taken from the top of the jar; the adults ate the remainder; the fatal case additionally drank the juice remaining in the jar.

Blood from the fatal case and emesis from a non-fatal case contained a heat labile toxin not neutralized by either Type A or B botulism antitoxin. Material from the salmon egg jar contained botulinus toxin Type E at a titer of 40 M.L.D. per ml. *C. botulinum*, Type E, was grown from the emesis material, the salmon eggs and from the smoked elk meat.

(Reported by Dr. Ernest A. Ager, Head, Communicable Disease Control, Washington State Health Department).

QUARANTINE MEASURES

Immunization Information for International Travel – 1960 edition
Public Health Service Publication No. 384

The following name should be added to the list of Yellow Fever Vaccination Centers in Section 6:

City	Center	Clinic Hours	Fee
Texas El Paso	U. S. Quarantine Station Santa Fe Street Bridge Tel. KEystone 3-9351 ext. 339 or 265	Friday, 9 a.m.	No

NOTICE

Due to observance of Independence Day on July 4, the report for the week ending July 1 (Vol. 10, No. 26) will be mailed on Friday, July 7 rather than Thursday, July 6.

FOR SOURCE AND NATURE OF MORBIDITY DATA SEE LAST WEEK'S MORBIDITY AND MORTALITY WEEKLY REPORT

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